Alabama Geographic Information Advisory Committee

Phillip Henderson

Chairman

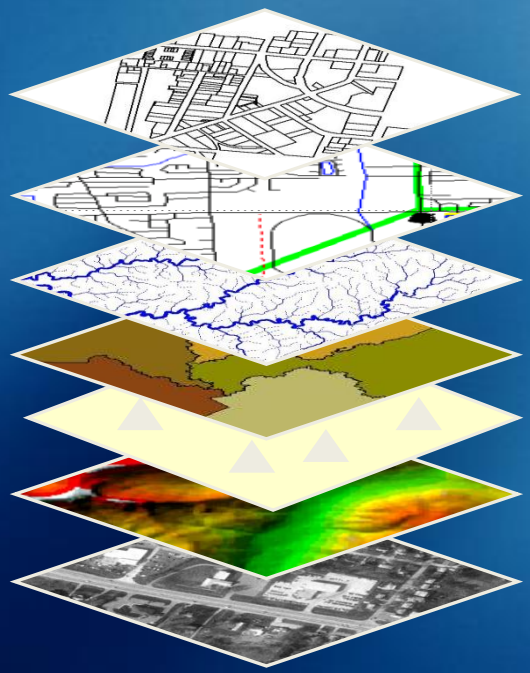
February 21, 2013

Agenda

- Welcome
- Introduction of Members and Guests
- Subcommittees Updates
- GIS Executive Council's Statewide GIS Goals
- GIS Program Office Update
- Virtual Alabama Update
- Next Meeting
- Adjourn

Imagery/LiDAR Subcommittee

- The Aerial Imagery Business Plan has been completed (Posted on the website gis.alabama.gov)



Land Ownership

Transportation

Surface Waters

Boundaries

Geodetic Control

Elevation

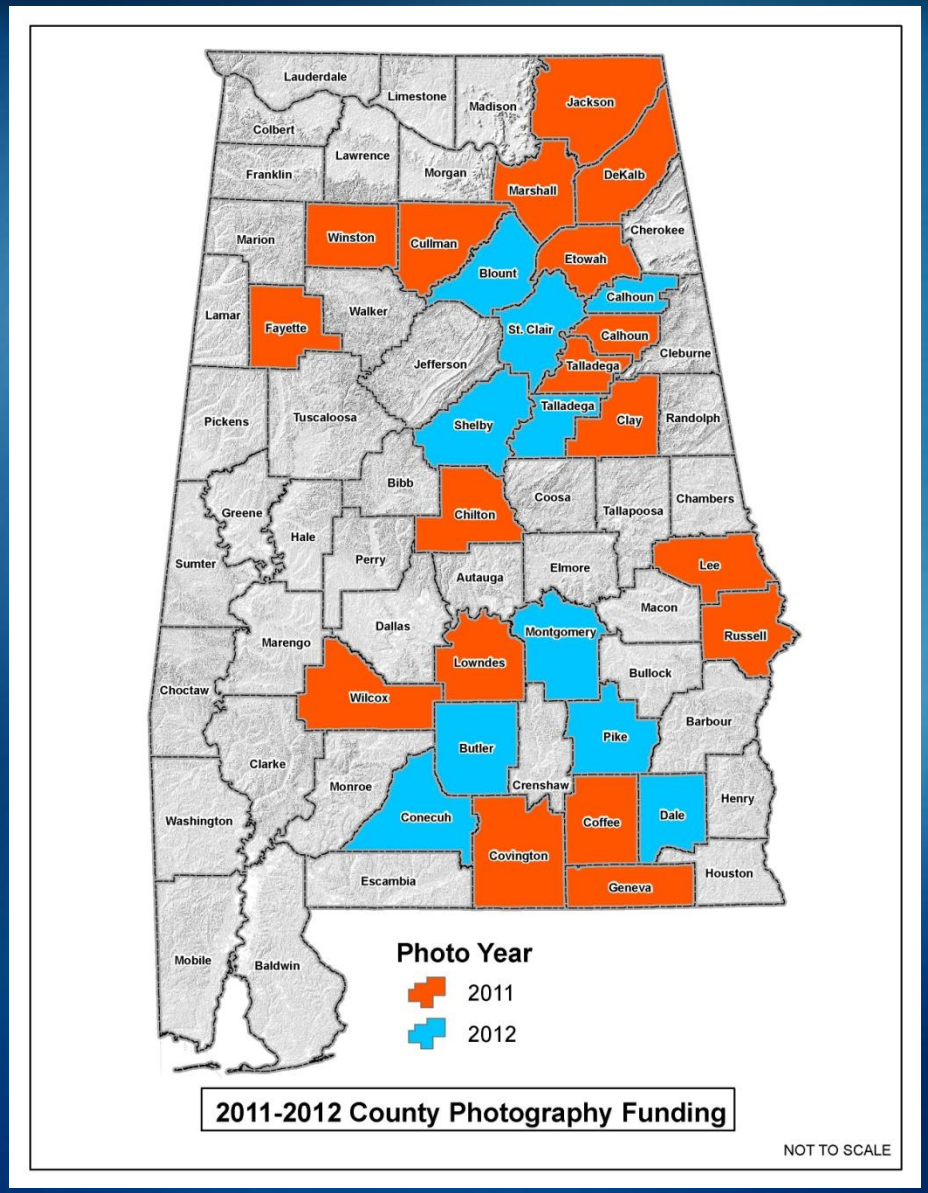
Aerial Imagery

Imagery/LiDAR Subcommittee

- Objectives from Business Plan

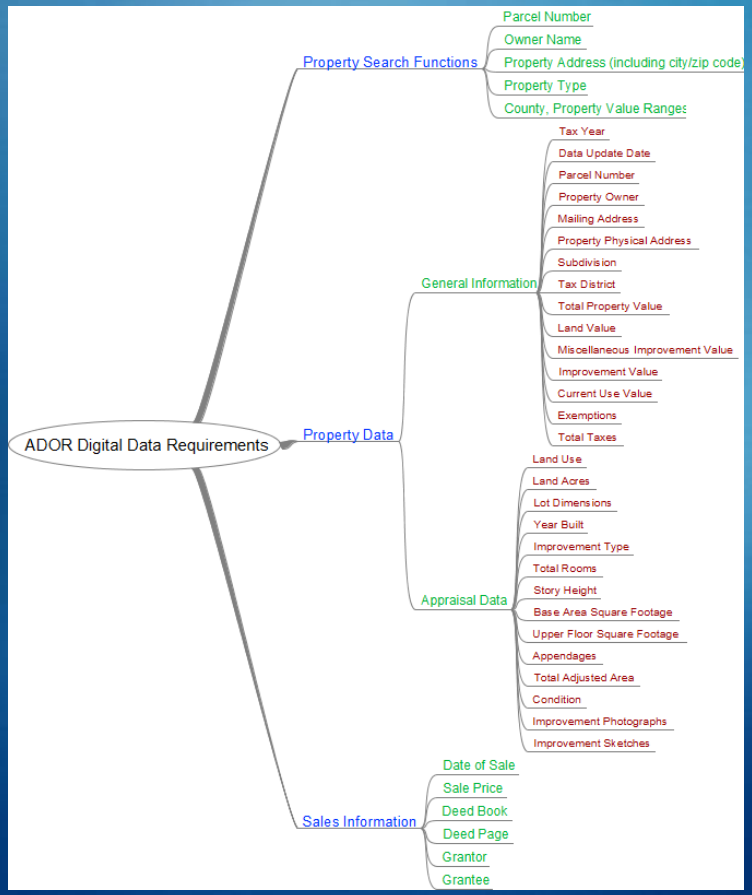
1. Distribute USGS photography and LiDAR specifications for review to stakeholders
2. Modify existing ADOR Mapping Guidelines and Specifications to reflect the updated specifications
3. Outreach to Federal, State, and Local Governments to communicate the Business Plan … determine possible funding sources for future partnerships
4. Establish policies and strategies which emphasize cooperation and coordination at all levels of government and other stakeholders in order to maximize the cost efficiency
5. Develop acquisition plans for Imagery and LIDAR for the 2013-2014 flying season
6. Identify and develop funding sources for project implementation and long-term maintenance

Imagery/LiDAR Subcommittee



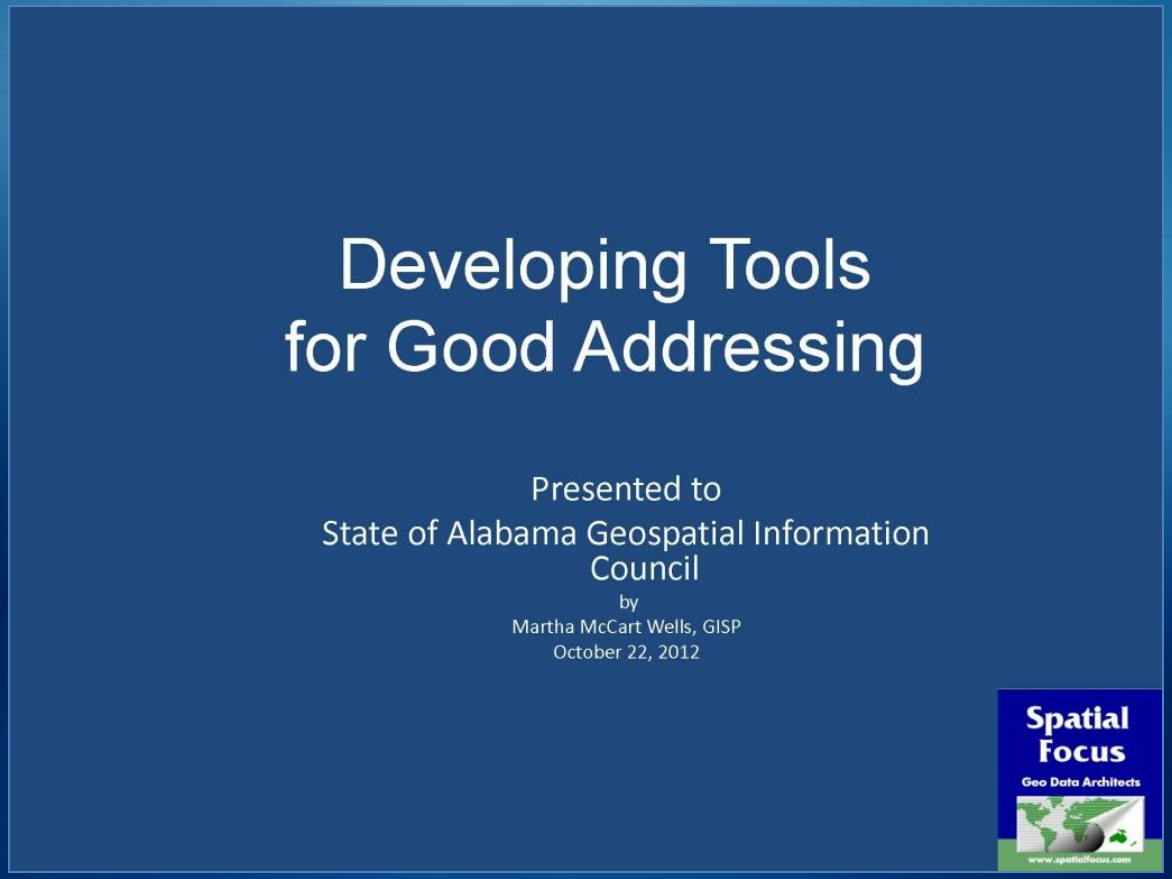
Data Subcommittee

- Concentrating activities on the goals of the GIS Executive Council
  - Working to develop standards from authoritative sources
    - Reviewing standards from Alabama Department of Revenue for Parcel Data Inventory



Data Subcommittee

- Addressing standards webinar with the nationally recognized NENA and FGDC expert Martha Wells
  - This is vital for geocoding and road centerlines



Data Subcommittee

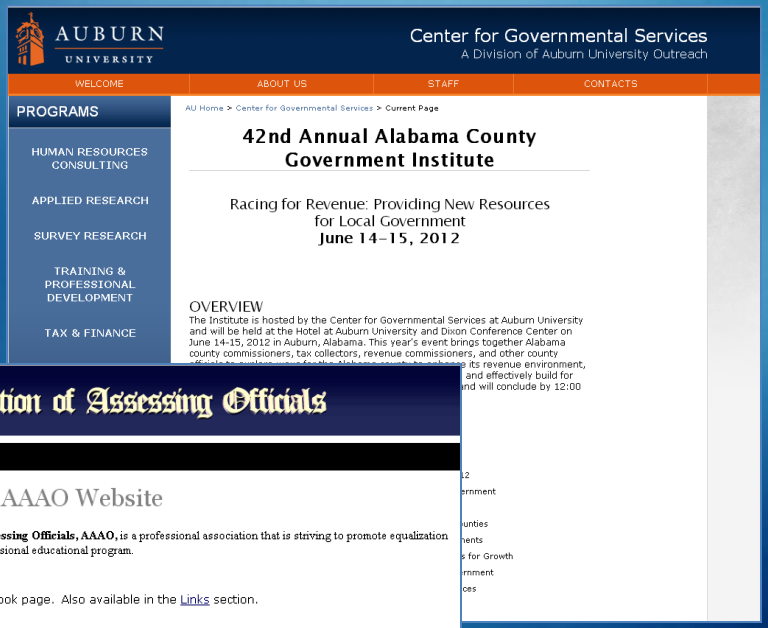
- Metadata questionnaire from the subcommittee is currently under review

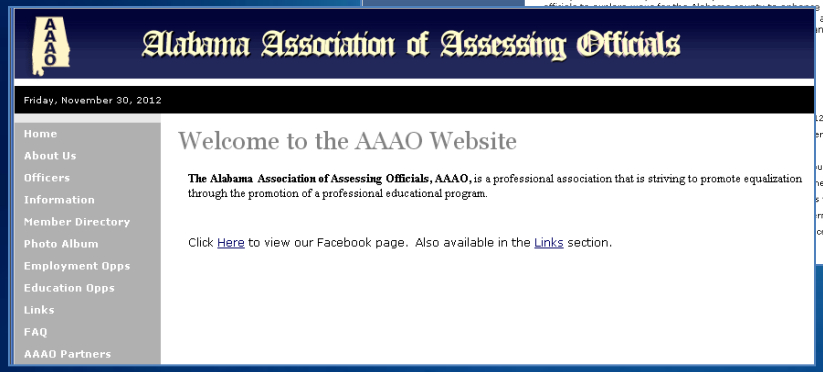
Metadata Questionnaire

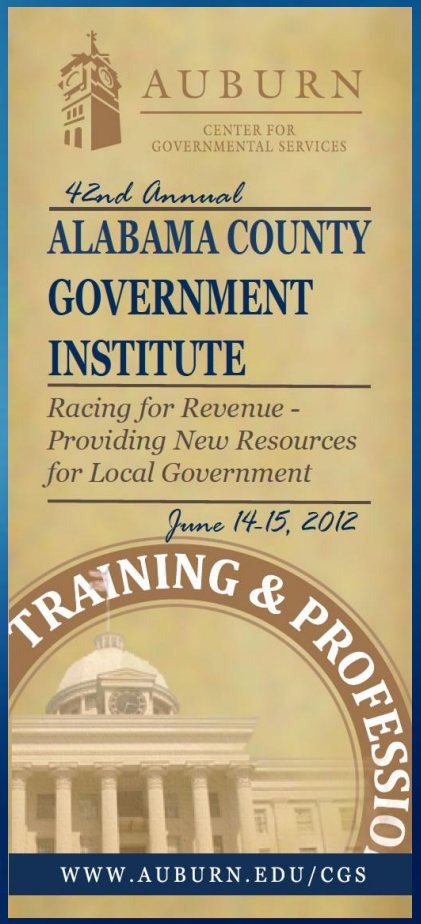
1. Does your agency produce geospatial data that are shared with the public?
2. Is metadata written to accompany this data?
3. Does your agency produce geospatial data that are shared with other state agencies, but not meant for public release?
4. Is metadata written to accompany this data?
5. For metadata written, is FGDC format used, or another format?(note, this refers to the format/layout of the metadata itself, not theme-words and not file type such as .xml/.txt)
6. Are you yourself proficient in writing metadata?
7. For geospatial data your agency shares with the public, what five metadata fields are most important to include? (ex: Time_Period_of_Content, Abstract, Publication_Date, Keywords, Use_Constraints, Point_of_Contact, Process_Description, Spatial_Reference_Information, Entity_and_Attribute_Information, Distribution_Liability, etc.)
8. For geospatial data your agency shares with other agencies (but not public), what five metadata fields are most important to include?

Education & Outreach Subcommittee

- Alabama County Government Institute's 42nd Annual Meeting (June 14-15)
- Alabama Association of Assessing Officials 31st Annual Summer Conference (August 13-17)

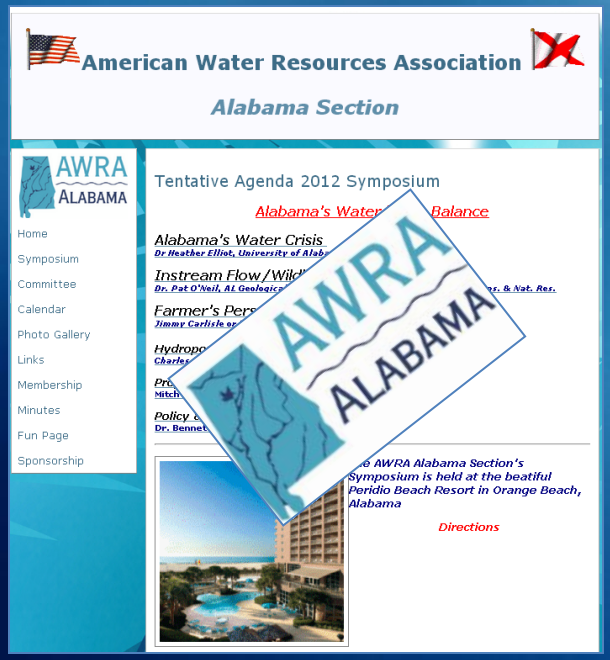






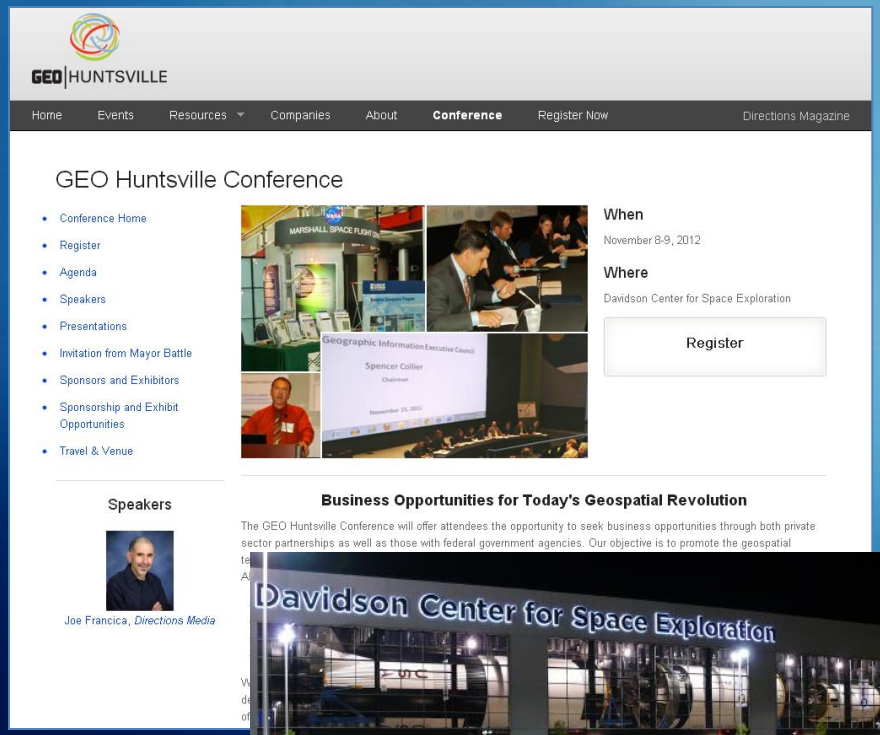
Education & Outreach Subcommittee

- 2012 Alabama Water Resources Conference (September 5-7)
- University of North Alabama Geography Alumni Conference (September 27 & 28)

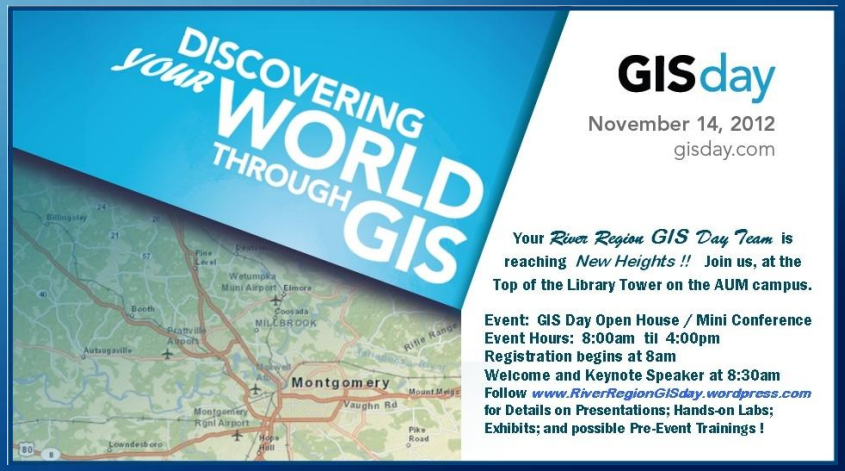


Education & Outreach Subcommittee

- GeoHuntsville Conference (formerly The Rocket City GIS Conference) (November 8 & 9)
- River Region GIS Day (November 13 & 14)



GEO|HUNTSVILLE

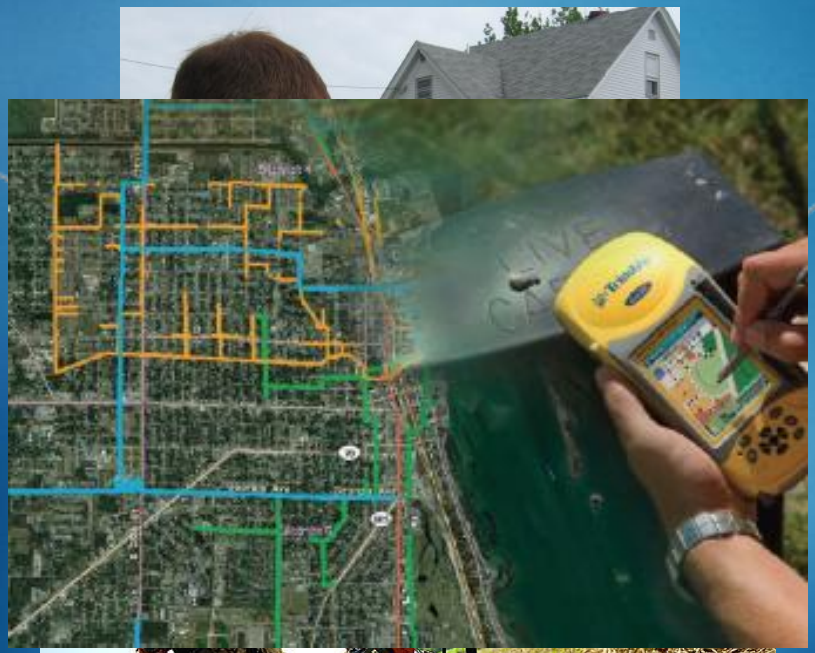


Education & Outreach Subcommittee

- Developing educational/informational brochures for outreach and display
- New opportunities for GIS education are currently under development

Communications Subcommittee

- Geospatial Preparedness Corps/GIS Response Team (GPC/GISRT)



GIS Emergency Management Implementation Plan

The Indiana Counter-Terrorism and Security Council

Communications Subcommittee

- Geospatial Preparedness Corps/GIS Response Team (GPC/GISRT)

  Statewide network of response individuals and organizations

  Vision:

  - Identify critical capabilities and vulnerabilities
  - Enhancing accessibility
  - Delineate all hazards, response, and assessment considerations.
  - Create a network for professional exchange and access to technical expertise
  - Encourage interactions and collaborative initiatives
  - Promote the standardization of methods
  - Identify methods to engage new partnerships and new energy in the area of deployable GIS response resources

Executive Council Statewide GIS Goals

- Inventory GIS data, applications, & services
- Leverage pooled resources
- Avoid unnecessary cost & duplication of effort
- Improve decision-support for statewide issues
- Establish statewide data standards to improve coordination

Executive Council Statewide GIS

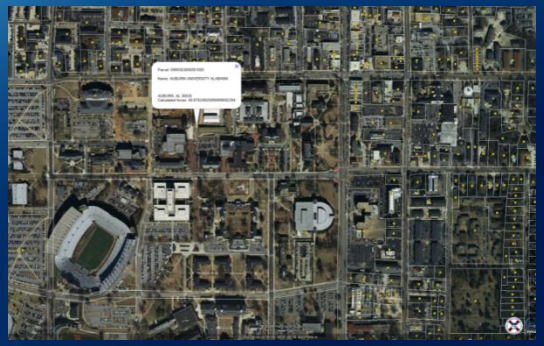
Coordinated Framework Data Layers

- For 2012
  - Aerial Imagery
  - Parcel Data
  - Road Centerlines
  - Geocoded Addresses

GIS Program Office Update

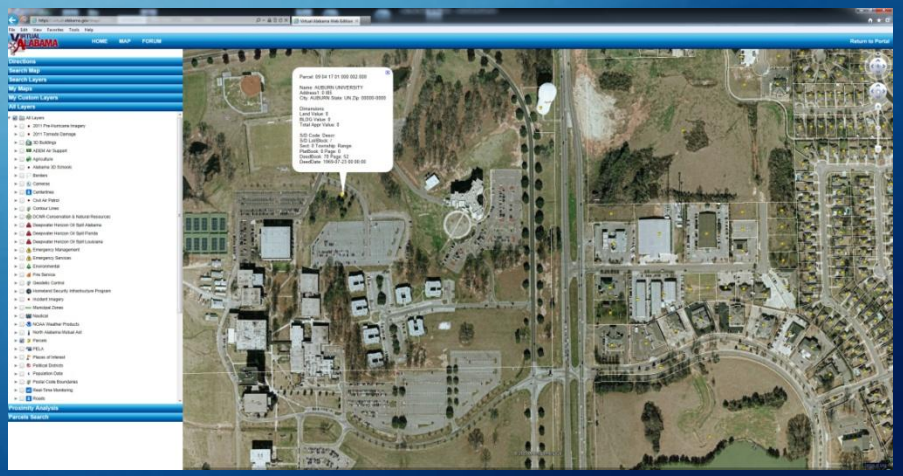
Aerial Imagery

- 20 counties of imagery updated in Virtual Alabama
  - 20 additional counties in process of ingestion
- NAIP CIR in the process of loading
- Esri world imagery 30 cm (better than NAIP)
- LiDAR for 20 counties



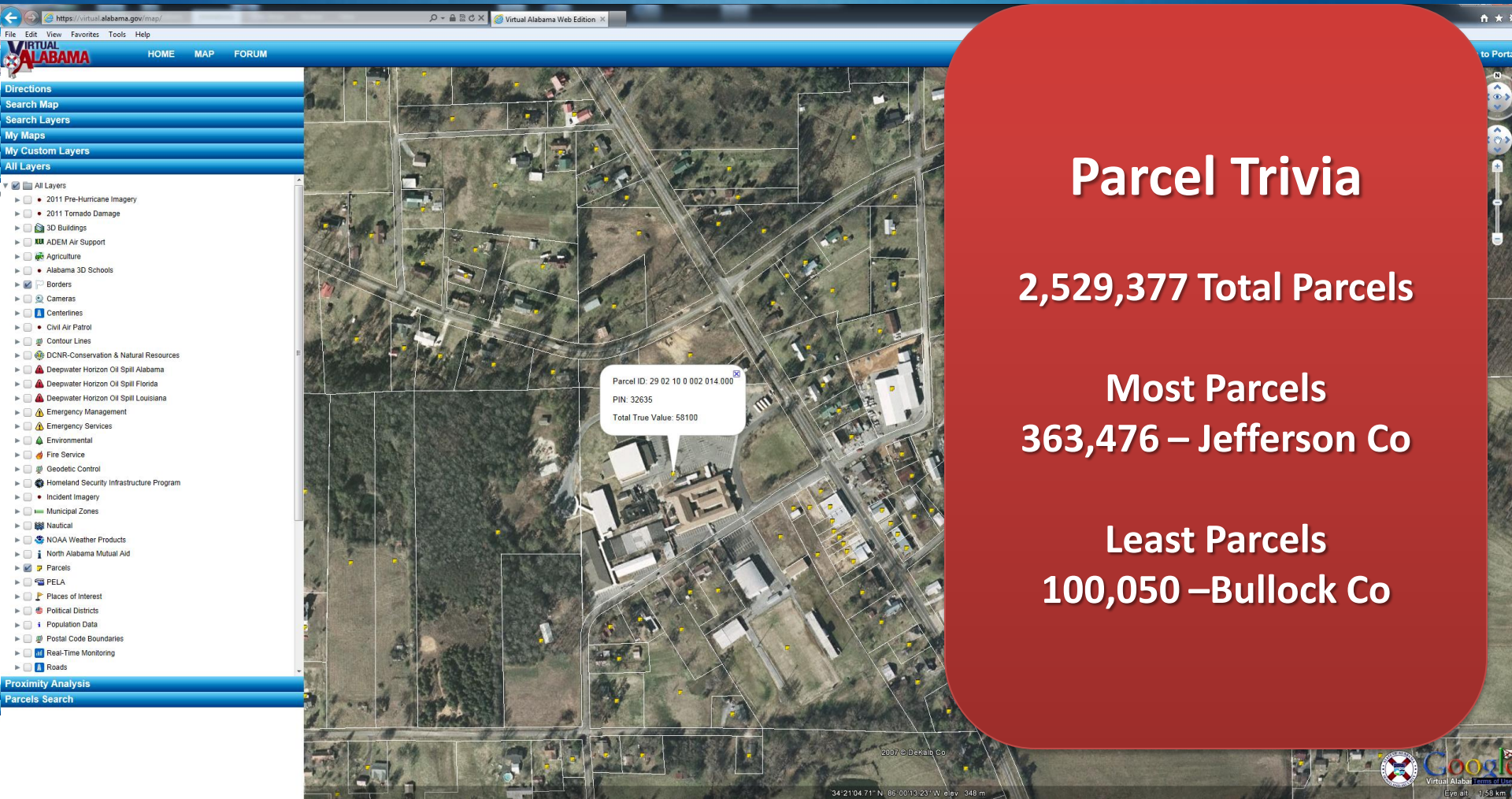
Parcel Data

- Virtual Alabama currently has 47 counties available
  - Acquisition of other counties underway
- Web map services have been developed
- Mechanism for routine updates are being explored



Parcels

47 Counties Contribute Parcel Data



Parcel Trivia

2,529,377 Total Parcels

Most Parcels
363,476 – Jefferson Co

Least Parcels
100,050 –Bullock Co

Road Centerlines

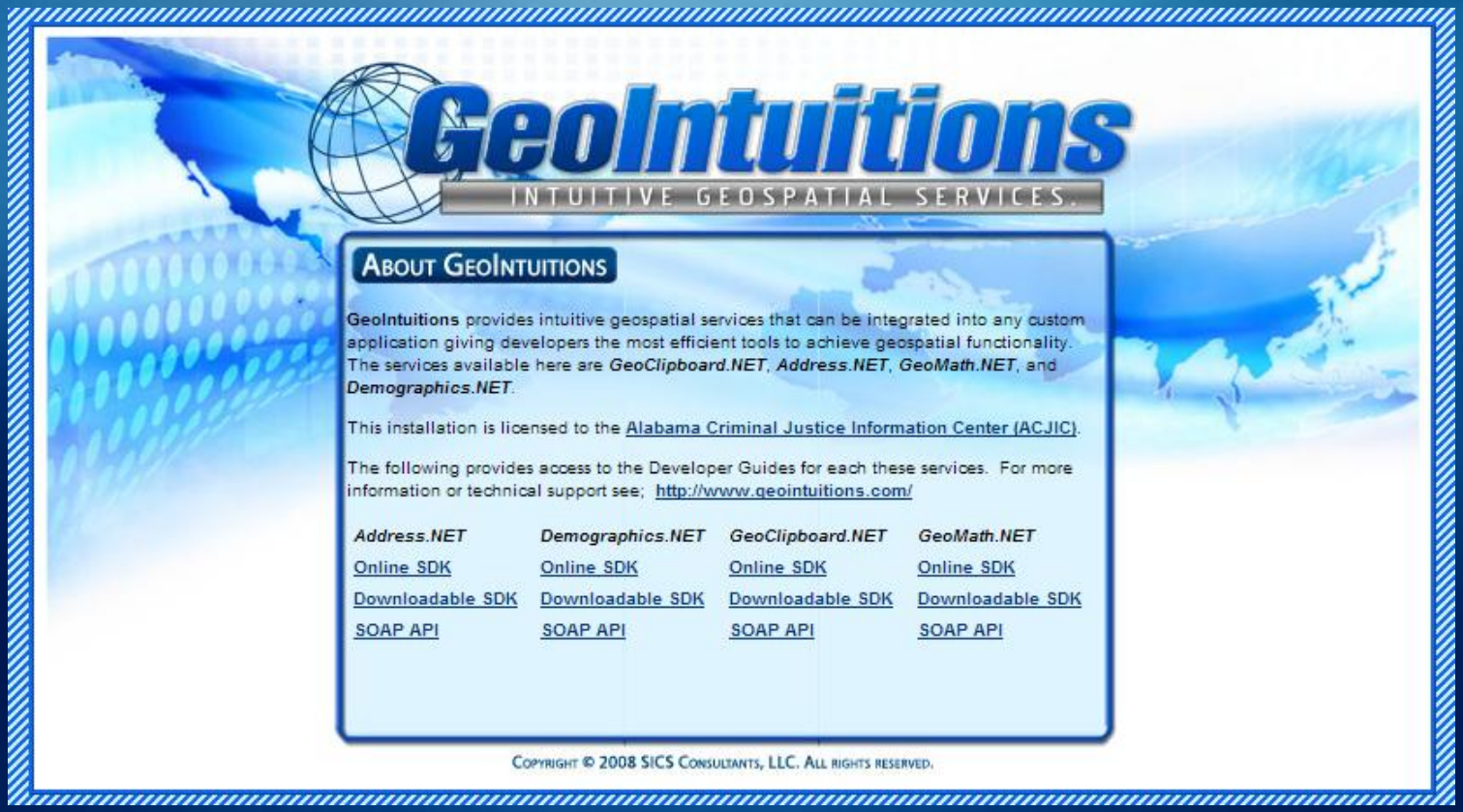
- Virtual Alabama currently has NAVTEQ road centerlines
- ALDOT delivered statewide coverage of road centerlines
  - State routes (includes Interstates and US routes)
  - County routes

Geocoded Addresses

- Virtual Alabama has a geocoder for addresses which is called GEOIntuitions
  - 1.6 million Alabama addresses identified
  - Address normalization
    - US Postal Service Database
  - Tiered geocoding architecture

Geocoded Addresses

- In production with the ULTRA Incident and Offense Database and the Sex Offender Database

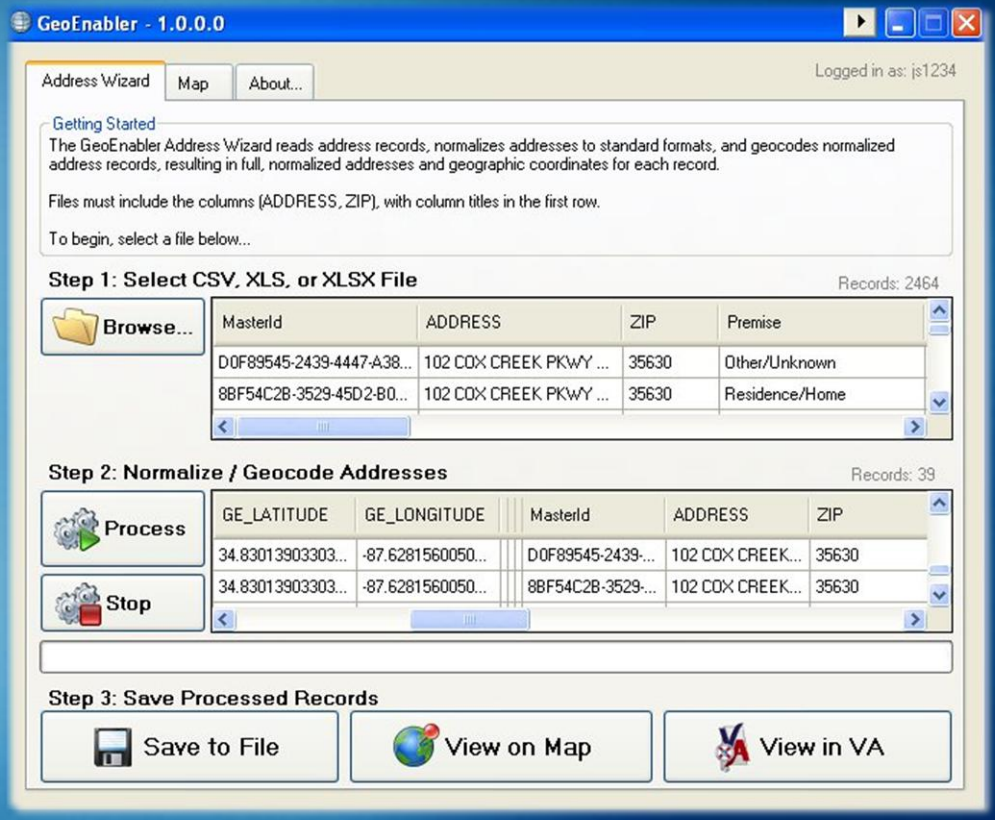


Geocoded Addresses

GeoEnabler

- Geocodes against parcels, NAVTEQ, TIGER, and GeoNames
- Normalizes addresses
- Verifies addresses against USPS database
- Supports up to 65,000 addresses
- Located at:

https://virtual.alabama.gov/Secure/GeoEnabler/



GIS Program Offices has first Introduction to GIS course

- This is a prototype for educational intuitions in Alabama
- Designed to give a broad survey of GIS
- 24 participants
- More to come…

ALABAMA
GEOGRAPHIC INFORMATION
PROGRAM OFFICE

ROBERT BENTLEY
GOVERNOR

PHILLIP HENDERSON
DIRECTOR

Introduction to GIS

Prerequisites
A basic understanding of computer hardware and Microsoft Windows operating systems.

Description
This one-day seminar is designed to give participants an overview of the State of Alabama GIS Executive Council and Program Office, to inform participants about Virtual Alabama and to introduce participants to Geographic Information Systems (GIS). Geographic Information Systems provide a variety of tools and technology to unearth and explain relationships, patterns, occurrences, and coincidence of spatially distributed features, objects, and information. Whether you know it or not, GIS impacts your daily life in many ways. The tools GIS offers enable business professionals to identify market areas, law enforcement officials to map and predict where crime is likely to occur, emergency management agencies to plan effective rescue and evacuation strategies in advance of disasters, and city, county, or state agencies to formulate and execute developmental plans in response to future growth trends as well as manage utilities, geo-spatial assets and parcel data. Topics covered in this seminar include GIS history and geospatial concepts, GIS computer operations, and map-making. Participants will gain hands-on experience with the world's leading GIS software, ESRI ArcGIS and Intergraph GeoMedia Professional. In addition, you will work with Global Positioning Systems (GPS) and gain an understanding of how GIS and GPS are combined to solve modern-day geospatial problems as well as provide insight into historical events. A portion of the seminar will touch on the latest 3D and 4D GIS technologies.

Seminar Topics
- What is GIS and how is it used?
- How is GIS governed in Alabama?
- What is Virtual Alabama and how is it a common operating picture?
- Hands-On Session, ESRI ArcGIS 10.1.
- Cartographic Concepts, Map Types, and Computer Cartography, ESRI ArcGIS 10.1.
- Data Types, Data Storage: Building Relational Databases, ESRI ArcGIS 10.1.
- Working with Images and Digitizing Features, ESRI Arc GIS 10.1.
- Overview and Hands-On with Intergraph GeoMedia Professional.
- Remote Sensing, GPS and 3D GIS.

Seminar Leaders
- Dr. Terry Winemiller
- Dr. Steve McKinney
- Phillip Henderson

401 ADAMS AVENUE - SUITE 460 - P.O. BOX 5690 - MONTGOMERY, ALABAMA 36103-5690 - (334) 353-1038

GIS Program Office to offer Esri GIS training courses

Training Pass

Esri Training Pass is a convenient, one-stop method to manage GIS training that allows you to access training when you need it.

Training Delivery Considerations

Training Pass days may be redeemed for:

1. **Instructor Led Courses (including client coaching)**
    1. **Online**
    2. **Traditional Public Classroom**
    3. **Client Site (at your location)**
2. **Virtual Campus**
3. **Esri Technical Certification**

Redemption Rates – Instructor Led

Option	Number of Days
Standard Course at Esri location (per student, per day)	1
Private class at Esri Location or Client Site Class* (per class, per day)	9
Additional student in a private or client site class (per student, per day)	0.5
Client coaching services at Esri location or client site (per class per day)	8

***The redemption rate for private classes and client site classes is based on a class size of up to 12 students. The additional student training day rate applies to each extra student.**

Redemption Rates

Virtual Campus Annual User Licenses

Option	Number of Days
Retail Value: $640	1
Retail Value: $2,500	4
Retail Value: $5,000	8
Retail Value: $7,500	11
Retail Value: $10,000	13
Retail Value: $25,000	32

***Most virtual campus courses cost $32 per course, per student.**

Esri Technical Certification Vouchers

Option	Number of Days
Esri Technical Certification Exam Voucher	0.45

Training Needs Identified

- **ArcGIS Online**
- **Flex or API Web Development**
- **Python Scripting**
- **System Configuration and Tuning**
- **Modeling**
- **Tools and Functionality of ArcGIS (Cartography/Editing)**

Departments included in assessment of needs:

- **EMA**
- **Geological Survey**
- **Oil and Gas Board**
- **ADECA**
- **ADEM**
- **ACJIC**
- **ALDOT**

Management Association for Private Photogrammetric Surveyors (MAPPS) forms the Alabama Chapter

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MAPPS

An Association of Photogrammetry, Mapping, and Geospatial Firms

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GA-MAPPS Membership Meeting

1/27/2013 » 1/31/2013
2013 MAPPS Winter Conference Registration

3/12/2013 » 3/13/2013
2013 Federal Programs Conference

7/22/2013 » 7/26/2013
2013 MAPPS Summer Conference

2/9/2014 » 2/13/2014
2014 MAPPS Winter Conference

Newsroom: MAPPS News

Email To A Friend

MAPPS ANNOUNCES FORMATION OF STATE CHAPTER IN ALABAMA AT GEO HUNTSVILLE CONFERENCE

Friday, November 09, 2012 (0 Comments)
Posted by: Nick Palatiello

Share

An Alabama state chapter of MAPPS, the association of private sector geospatial firms, was announced today at the GEO Huntsville conference in Huntsville, AL.

"Following the momentum of this conference, and recognizing the significant cluster of geospatial firms and organizations in Huntsville and the State of Alabama, the establishment of AL-MAPPS is natural to leverage that synergy for further business growth," said Jeff Lower, MAPPS President-Elect, Magnolia River Services, Inc. during a presentation at the conference.

A number of principals of MAPPS member firms based in or with employees or offices in Alabama gathered on September 26 at the offices of Magnolia River Services, Inc. in Huntsville, AL for an "interest meeting" to discuss the establishment of a MAPPS chapter in Alabama.

A task force developed bylaws, established an initial Board of Directors, and organized the launch of the chapter at GEO-Huntsville.

The initial Board of Directors will be Dale Jobes, Magnolia River Services, Inc. (Huntsville, AL), Antonio Montoya, AeroMetric (Madison, AL), Scott Beard, Wiser Company (Birmingham, AL), George Jones, ISC (Huntsville, AL), and Aaron Morris, GISP Michael Baker Jr., Inc. (Ridgeland, MS).

"The growth of the MAPPS chapter program is a recognition by the membership of the unique synergy of firms at the national level that can be replicated in the states," said MAPPS President Dick McDonald, PLS, CP (T3 Global Strategies, Bridgeville, PA). "Working together through a state chapter these member firms will be able to grow their business, raise awareness of the important role of geospatial technologies play in our society and affect public policy at the state and local level."

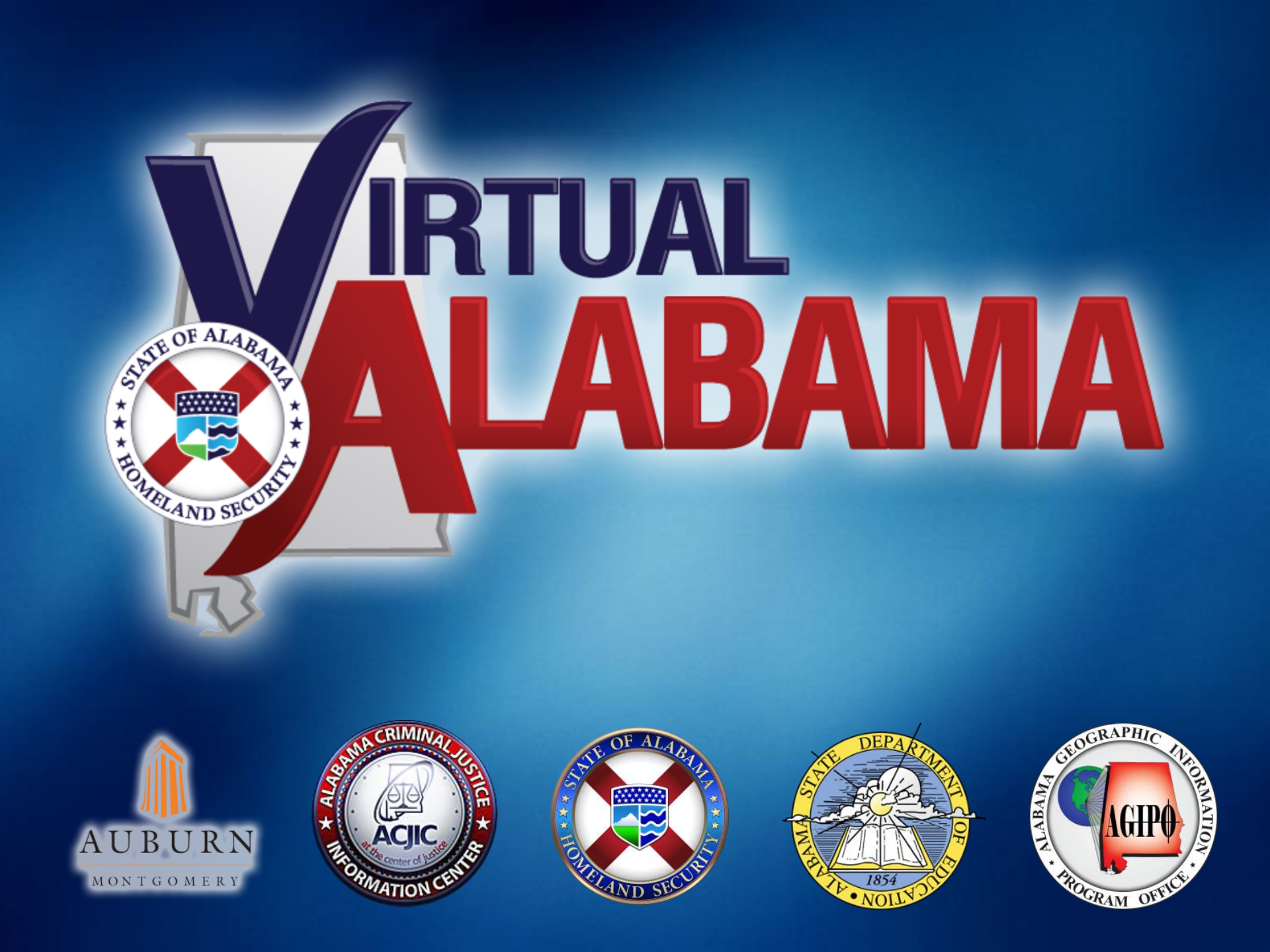
Chapter dues will be just $250 per firm. In order to be a member of AL-MAPPS, a firm must be a member of the MAPPS national association. For more information, visit www.mapps.org.

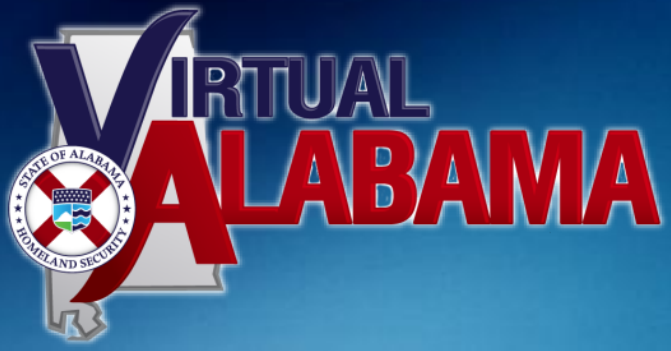
About MAPPS

Formed in 1982, MAPPS is the only national association exclusively comprised of private firms in the remote sensing, spatial data and geographic information systems field in the United States. The MAPPS membership spans the entire spectrum of the geospatial community, including Member Firms engaged in satellite and airborne remote sensing, surveying, photogrammetry, aerial photography, LIDAR, hydrography, bathymetry, charting, aerial and satellite image processing, GPS, and GIS data collection and conversion services. MAPPS also includes Associate Member Firms, which are companies that provide hardware, software, products and services to the

AL-MAPPS

- Promote the significant cluster of geospatial firms and organizations in Alabama and its contributions to the state's employment base and economy
- Work with the State of Alabama and City of Huntsville to leverage that synergy for further economic growth
- Strengthen and broaden relationships with the educational community
- Provide a voice for the private sector and the community at large in governmental processes
- Pursue public/private partnerships as well as promote skilled workforce, market innovation & development and competitive market within Alabama
- Provide a forum for private firms in the state


VIRTUAL
ALABAMA
STATE OF ALABAMA
HOMELAND SECURITY
AUBURN
MONTGOMERY
ALABAMA CRIMINAL JUSTICE
ACJIC
at the center of justice
INFORMATION CENTER
STATE OF ALABAMA
HOMELAND SECURITY
STATE DEPARTMENT OF EDUCATION
1854
ALABAMA GEOGRAPHIC INFORMATION
AGIPO
PROGRAM OFFICE



36,164

Total Users

3,196

Government Agencies

>500

Average Weekly Users

VA Completed Updates

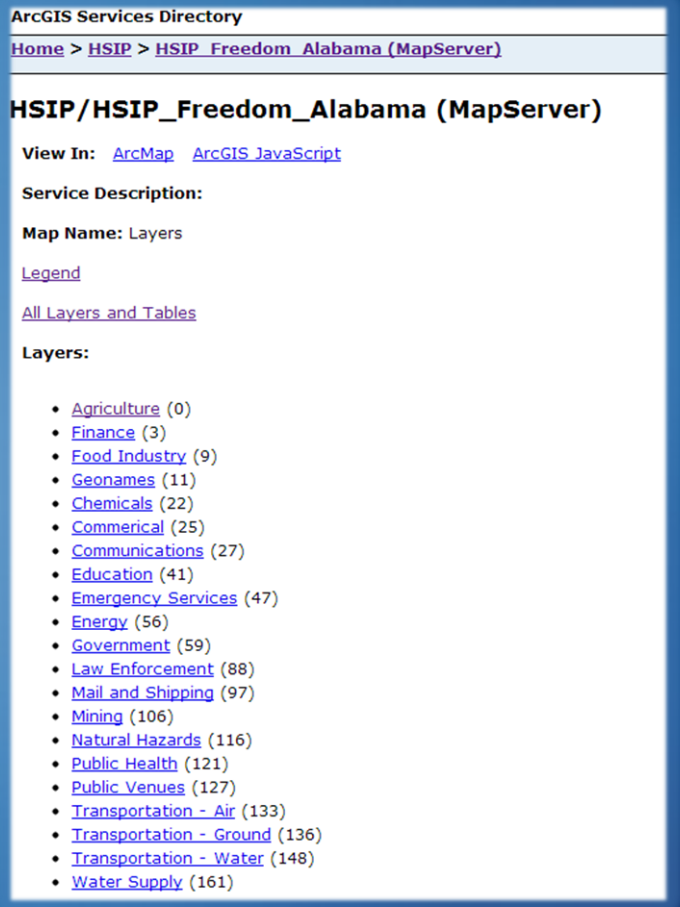
- Expanded storage capacity by 30 Tb
- ArcGIS Map Services are now exposed
- GeoIntuitions - Parcel Level Geocoding (1.6 million parcels)
- Parcel search in the desktop client
- Reorganization of data tree
- GeoEnabler - v1.1.0.20
- Sex Offenders Search in the desktop client
- VA announcements now available in the desktop client
- vUSA widget developed
- Mobile App prototype

VA Updates Underway

- Ingestion of 20 counties of imagery
- Ingestion of HSIP Freedom (274 layers)
- Ingestion of various statewide vector datasets (i.e. NHD, SSURGO, NGS…etc.)
- 2D map
  - Mobile support to iPads, iPhones, and Androids
- Bookmarks for the VA web portal and mobile apps
- VA Users will be able to upload and share resources (pictures, docs, links - all must be georeferenced)
- ArcGIS publish to VA inventory tool (toolbar)
- In myprojects
  - Creation of the ability to reply for comment on geospatial projects
  - Creation of the ability to upload custom AOI for project boundaries
- Sex Offenders - photos display in popup

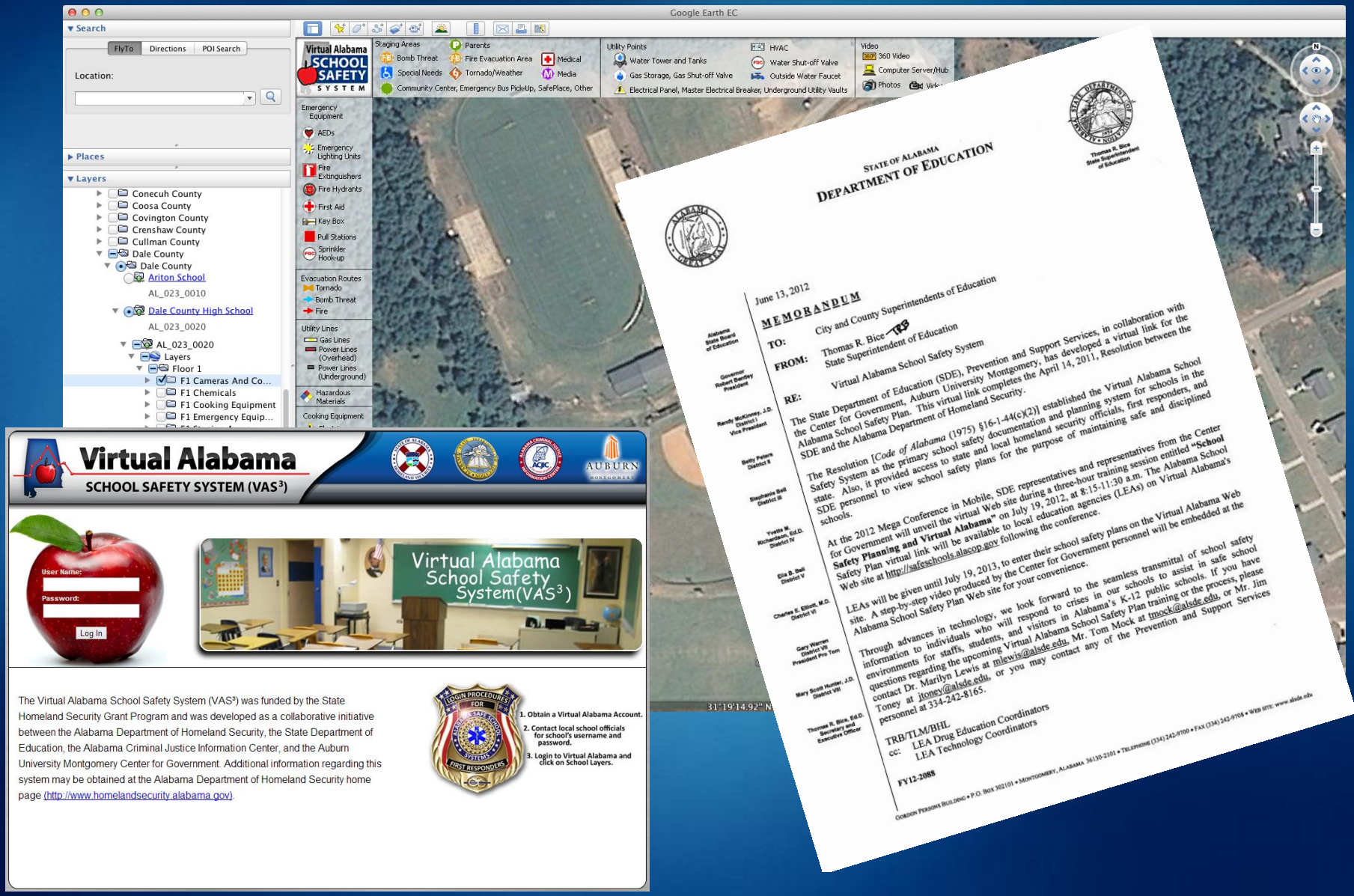
ArcGIS Map Services

- Access granted based on request through VA user profile
- Secured with VA credentials
- 43 Counties of Parcel data
- 274 layer of HSIP Freedom data
- More to come…

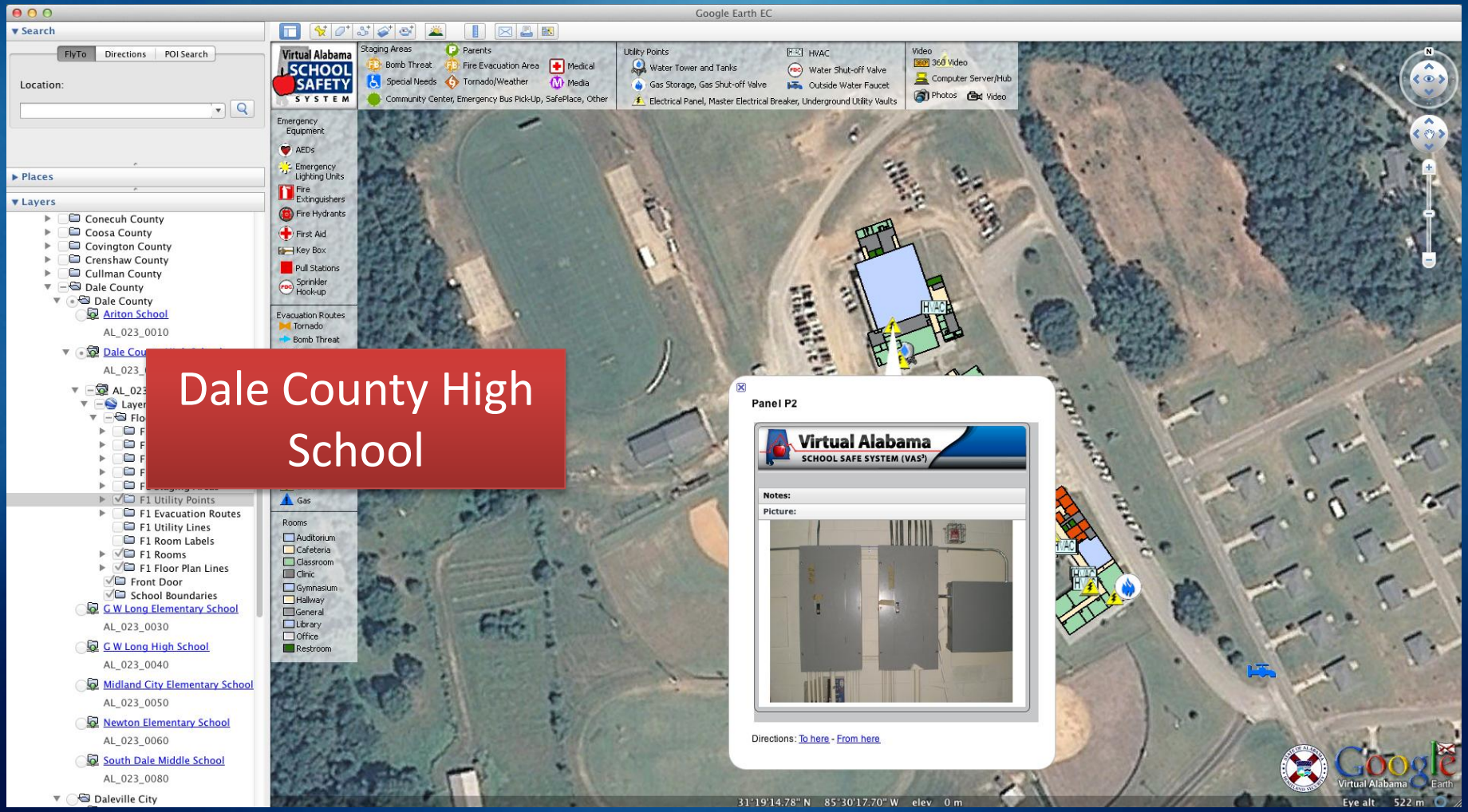


VIRTUAL ALABAMA

Virtual Alabama School Safety System

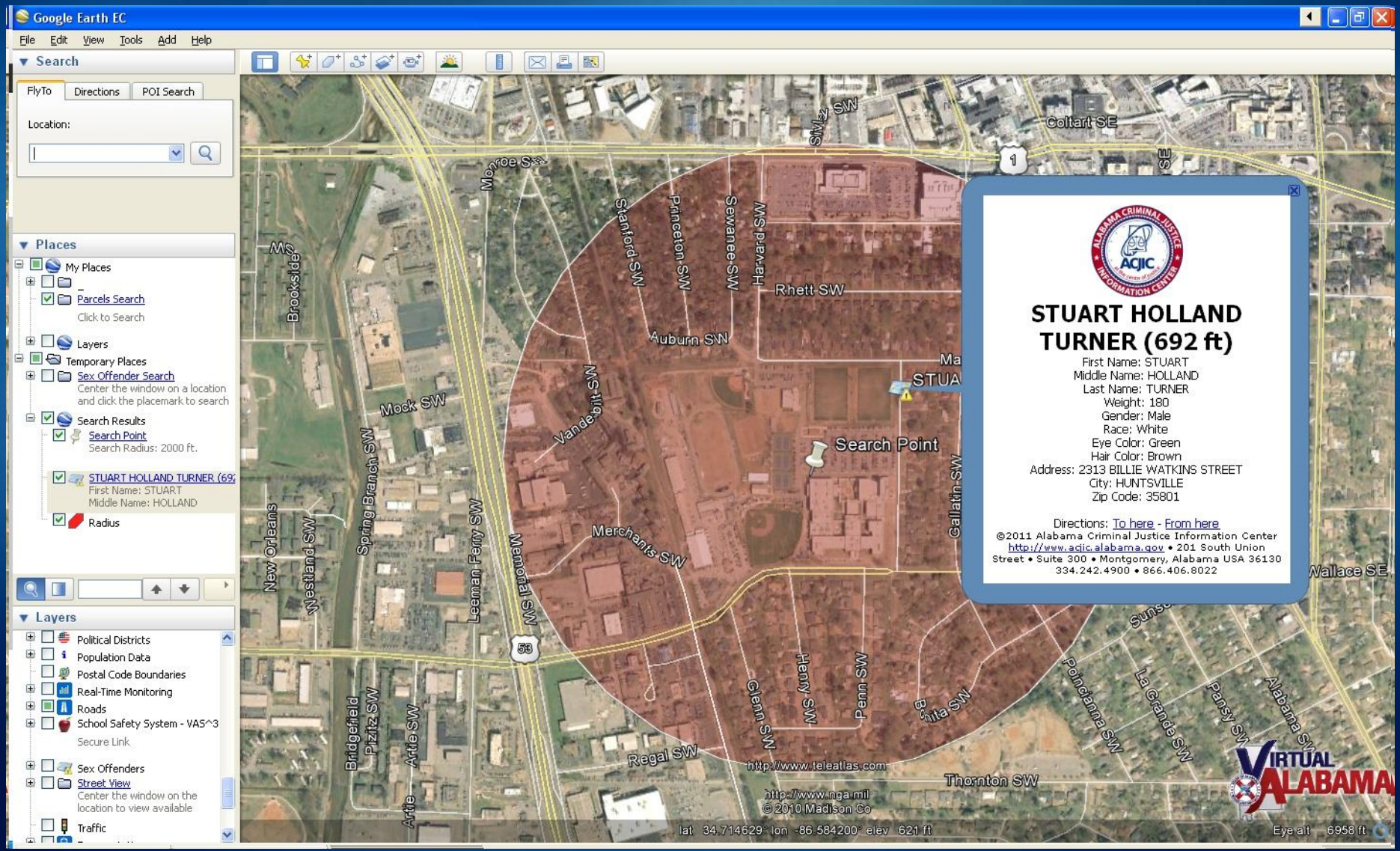


Approximately 1500 Schools Entered

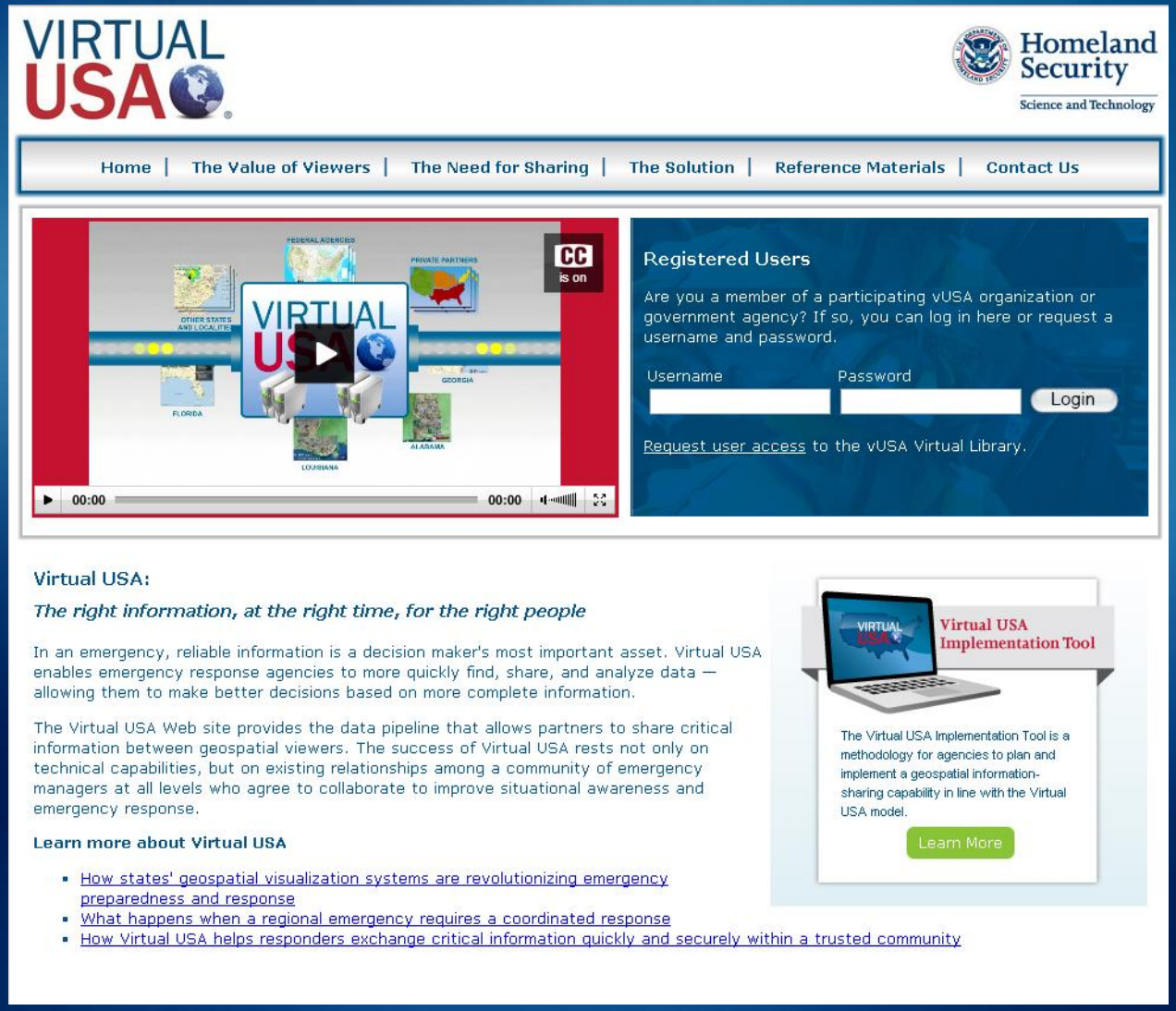


Dale County High School

Virtual Alabama School Safety System



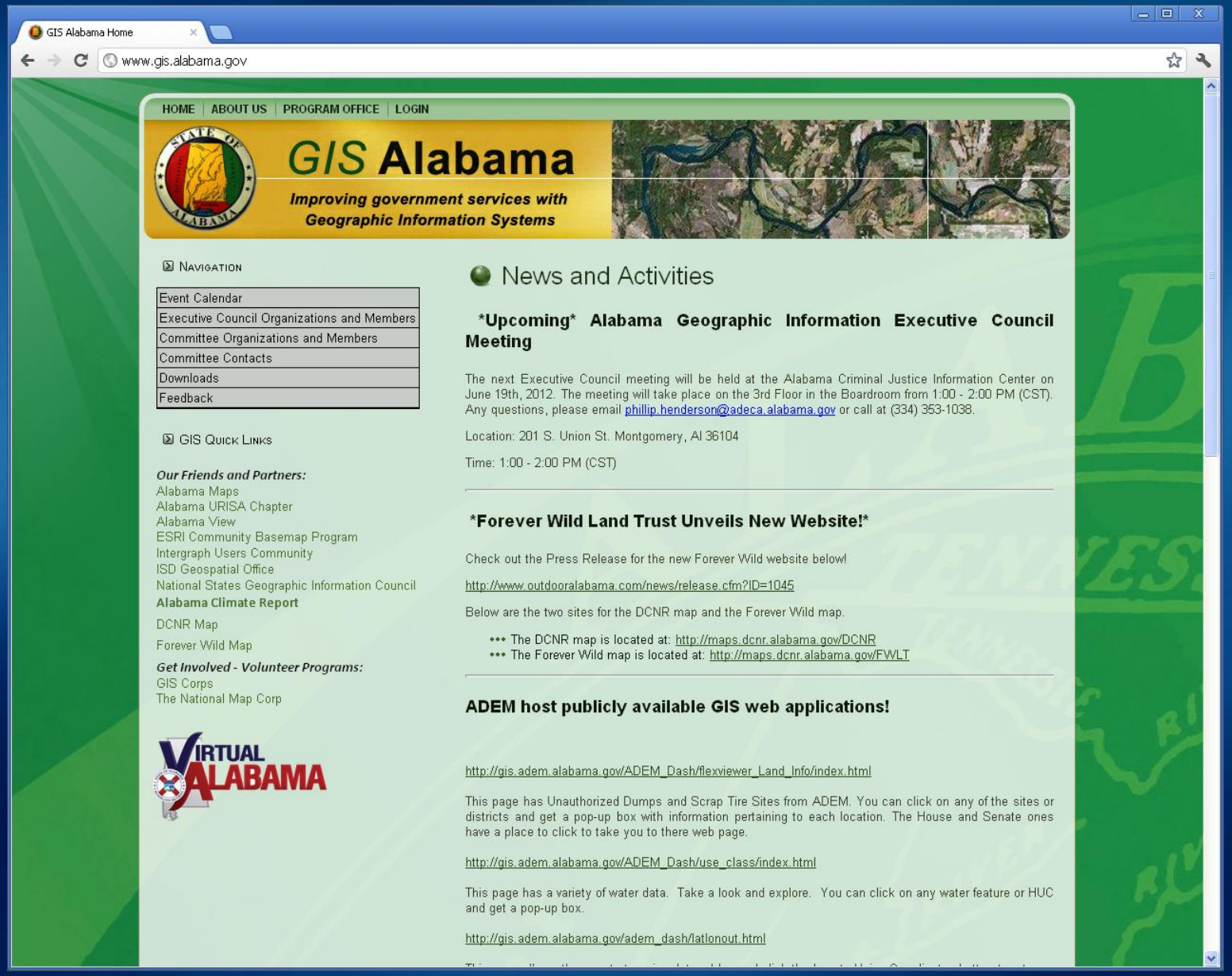
Virtual USA Development Team



Agenda

- Next Meeting
- Adjourn

State GIS Website



GIS Awards & Conference

- Establish the Governor's Excellence Award in GIS
  - Nominations collected by the Program Office
  - Approved by the GIS Executive Council
- Recognition of GIS success stories around the state
  - Communications Subcommittee
- Establish Statewide GIS conference
  - Summer/Fall 2013